

Title (en)
Substituted amino acid derivatives

Title (de)
Substituierte Aminosäurederivate

Title (fr)
Dérivés substitués d'acide aminé

Publication
EP 0832898 A2 19980401 (DE)

Application
EP 97114805 A 19970827

Priority
DE 19636538 A 19960909

Abstract (en)
Preparation (A) of oligosaccharide analogues and glycoconjugate analogues comprises (a) allowing carbonyl components, carboxylic acids, amines and isonitriles, some or all of which are glycosylated or substituted by carbohydrate residues, to react together in a solvent; and (b) isolating the product. N-Acylated amino acid derivatives of formula $R_3CON(R_2)CH(R_1)COXR_4$ (I) and their salts are new. R_1 , R_2 = optionally mono- or poly-unsaturated alkyl or cycloalkyl, optionally mono- or poly-unsaturated or aromatic heterocyclyl or heterocyclyl-alkyl, or aryl or arylalkyl (all optionally substituted) or YR_5 ; R_3 , R_4 = H or as for R_1 ; X = O, NH, N(lower alkyl) or S; Y = $-(CH_2)_n$ -, $-(CH_2)_nO$ -, $-(CH_2)_nN(COR_6)$ or $-(CH_2)_nCON(R_7)$ -; R_5 = a substituted ring R; R = alkyl, tetrahydrofuranyl, tetrahydropyranyl, lower alkyl-tetrahydrofuranyl or lower alkyl-tetrahydropyranyl; R_6 , R_7 = H or lower alkyl; n = 0-3; provided that: (1) at least one YR_5 is present; and (2) when R_2 is glycosyl, then a further YR_5 is present. Preferably R_5 is an acyclic or cyclic carbohydrate residue.

Abstract (de)
Die Erfindung betrifft mit Kohlenhydraten substituierte Aminosäuren der Formel <IMAGE> worin die Substituenten die in der Beschreibung angegebene Bedeutung haben, ihre Herstellung durch Mehrkomponentenreaktion und ihre Verwendung.

IPC 1-7
C07H 3/06; **C07H 11/00**; **A61K 31/70**

IPC 8 full level
A61K 31/70 (2006.01); **A61K 31/7028** (2006.01); **A61P 43/00** (2006.01); **C07C 237/22** (2006.01); **C07C 327/20** (2006.01); **C07H 5/06** (2006.01); **C07H 15/04** (2006.01)

CPC (source: EP)
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Cited by
US7476725B2; WO2005123140A3

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